## WHAT IS CLAIMED IS:

- 1. A compound that inhibits PTP-1B and that interacts with at least one of the PTP-1B exosite-forming residues.
- 2. A compound that inhibits TC-PTP and that interacts with at least one of the TC-PTP exosite-forming residues.
- 3. A compound having the structure having the structure

$$R^2$$
  $R^6$   $R^1$   $R^1$   $R^1$   $R^2$ 

wherein:

R<sup>1</sup> is hydrogen, methyl, ethyl, or propyl;

 $R^2 \ is \ hydrogen, \ -S(O_2)R^3, \ -NH(C(=O)R^3, \ -NH(C(=O)CH_2(C=O)OR^3, \\ -S(O_2)NR^4R^5, \ or \ -NR^4S(O_2)R^3 \ where \ R^3 \ is \ C_1-C_5 \ alkyl, \ R^4 \ is \ hydrogen, \ C_1-C_5 \ alkyl, \\ unsubstituted \ cyclic \ moiety, \ or \ substituted \ cyclic \ moiety, \ and \ R^5 \ is \ either \ hydrogen \ or \ R^5 \\ and \ R^4 \ together \ form \ an \ unsubstituted \ cyclic \ moiety \ or \ a \ substituted \ cyclic \ moiety;$ 

 $R^6$  is hydrogen or alternatively when  $R^2$  is  $-NR^4S(O_2)NR^3$ , then  $R^6$  and  $R^4$  together form an unsubstituted cyclic moiety or substituted cyclic moiety; and, L is  $-NHS(O_2)$  - or  $-S(O_2)$   $NR^7CH_2$ - where  $R^7$  is hydrogen or  $C_1$ - $C_5$  alkyl.

4. The compound of claim 3 wherein the one or more substituents on the substituted cyclo group are each independently selected from the group consisting of: C<sub>1</sub>-C<sub>5</sub> alkyl, phenyl, benzyl, F, Cl, I, Br, -OH; -NO<sub>2</sub>; -CN; -CF<sub>3</sub>; -CH<sub>2</sub>CF<sub>3</sub>; -CH<sub>2</sub>Cl; -CH<sub>2</sub>OH; -CH<sub>2</sub>CH<sub>2</sub>OH; -CH<sub>2</sub>NH<sub>2</sub>; -CH<sub>2</sub>SO<sub>2</sub>CH<sub>3</sub>; -OR<sup>8</sup>; -C(O)R<sup>8</sup>; -COOR<sup>8</sup>; -C(O)NR<sup>8</sup>R<sup>9</sup>;

 $-OC(O)R^8$ ;  $-OCOOR^8$ ;  $-OC(O)NR^8R^9$ ;  $-NR^8R^9$ ;  $-S(O)_2R^8$ ; and  $-NR^8C(O)R^9$  where  $R^8$  and  $R^9$  are each independently hydrogen,  $C_1$ - $C_5$  alkyl, phenyl or benzyl.

- 5. The compound of claim 3 wherein  $R^2$  and  $R^6$  are both hydrogen.
- 6. The compound of claim 3 wherein R<sup>2</sup> is -S(O<sub>2</sub>)NHR<sup>5</sup> where R<sup>5</sup> is an unsubstituted cyclic moiety or substituted cyclic moiety, and R<sup>6</sup> is hydrogen.
- 7. The compound of claim 3 wherein  $R^2$  is  $-S(O_2)R^3$  where  $R^3$  is methyl, ethyl, or propyl, and  $R^6$  is hydrogen.
- 8. The compound of claim 3 wherein  $R^2$  is -NH(C(=O) $R^3$  where  $R^3$  is methyl, ethyl, or propyl, and  $R^6$  is hydrogen.
- 9. The compound of claim 3 wherein  $R^2$  is -NH(C(=O)CH<sub>2</sub>(C=O)OR<sup>3</sup> where  $R^3$  is methyl, ethyl, or propyl, and  $R^6$  is hydrogen.
- 10. The compound of claim 3 wherein  $R^2$  is  $-NR^4S(O_2)R^3$  wherein  $R^3$  is methyl and  $R^4$  and  $R^6$  together form an unsubstituted heterocyclo or a substituted heterocyclo.
- 11. A compound having the structure

wherein:

 $R^{10}$  is  $C_1$ - $C_5$  alkyl or NHR<sup>11</sup> where  $R^{11}$  is hydrogen,  $C_1$ - $C_{10}$  alkyl or aryl; and, L is -NHS(O<sub>2</sub>) - or -S(O<sub>2</sub>) N(CH<sub>2</sub>)<sub>3</sub>CH<sub>2</sub>-.

- 12. The compound of claim 11 wherein R<sup>10</sup> is methyl, ethyl or propyl.
- 13. The compound of claim 11 wherein R<sup>10</sup> is NHR<sup>11</sup> and R<sup>11</sup> is hydrogen.
- 14. The compound of claim 11 wherein R<sup>10</sup> is NHR<sup>11</sup> and R<sup>11</sup> is aryl.
- 15. The compound of claim 19 wherein R<sup>11</sup> is phenyl.
- 16. The compound of claim 19 wherein R<sup>11</sup> is heteroaryle
- 17. An exosite mutant of PTP-1B.
- 18. An exosite mutant of TC-PTP.
- 19. A pharmaceutical composition comprising an effective amount of a compound of any one of claims 1-3, and 11, or a prodrug or pharmaceutically acceptable derivative thereof, in admixture with a pharmaceutically acceptable carrier.
- 20. A method of identifying an exosite inhibitor of PTP-1B comprising
  - a) contacting a test compound with PTP-1B;
  - b) contacting the test compound with an exosite mutant of PTP-1B; and
  - c) comparing the activity of PTP-1B in the presence of the test compound with the activity of the exosite mutant of PTP-1B in the presence of the test compound.
- 21. A method of identifying an exosite inhibitor of TC-PTP comprising
  - a) contacting a test compound with TC-PTP;
  - b) contacting the test compound with an exosite mutant of TC-PTP; and
  - c) comparing the activity of TC-PTP in the presence of the test compound with the activity of the exosite mutant of TC-PTP in the presence of the test compound.

- 22. A method for treating type 2 diabetes, or a pathologic condition associated with type 2 diabetes, comprising administering to a subject in need thereof a therapeutically effective amount of a PTP-1B exosite inhibitor of claim 1.
- 23. The method of claim 22 wherein the pathologic condition associated with type 2 diabetes is insulin resistance.
- 24. A method for treating inflammation is provided comprising administering to a subject in need thereof a therapeutically effective amount of a TC-PTP exosite inhibitor of claim 2.
- 25. A method for treating an immune system disorder comprising administering to a subject in need thereof a therapeutically effective amount of a TC-PTP exosite inhibitor of claim 2.
- 26. A method for treating a hematopoiesis disorder comprising administering to a subject in need thereof a therapeutically effective amount of a TC-PTP exosite inhibitor of claim 2.